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PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference					
FOR FURTHER ACTION See Form PCT/IPEA/416					
International application No.	International filing date (day)	n/month/year) Priority date (day/month/year)			
PCT/SE2003/001517	30-09-2003				
International Patent Classification (IPC) o	r national classification and IP	PC			
See Supplemental Box					
Applicant					
Telefonaktiebolaget L	M Ericsson (pu	bl) et al			
This report is the international pre Authority under Article 35 and tr	eliminary examination report, ansmitted to the applicant acc	established by this ording to Article 3	s International Preliminary Examining 36.		
This REPORT consists of a total of a to	of 6 sheets, inc	cluding this cover	sheet.		
This report is also accompanied b	y ANNEXES, comprising:				
Count to the survivers	t and to the International Bure	ogu) a total of	sheets, as follows:		
· · · · · · · · · · · · · · · · · · ·			been amended and are the basis of this report		
and/or sheets	containing rectifications authors to the containing rectifications authors in the containing rectifications authors are contained as a containing rectification and a containing rectifications authors are contained as a containing rectification and a containing rectifications authors are contained as a containing rectification and a containing rectification are contained as a containing rectification and a containing rectification are contained as a containing rectification and a containing r	orized by this Aut	thority (see Rule 70.16 and Section 607 of the		
sheets which	supersede earlier sheets, but v	which this Authori	ity considers contain an amendment that goes		
beyond the d Supplementa		ipplication as filed	1, as indicated in item 4 of Box No. I and the		
b. (sent to the Internati					
U. Sem to me merman			and/or tables related thereto, in electronic		
form only, as indicated Administrative Instru	ed in the Supplemental Box R	clating to Sequen	ce Listing (see Section 802 of the		
This report contains indications r	relating to the following items:				
-	of the report				
Box No. II Priorit	у				
Box No. III Non-ea	stablishment of opinion with r	egard to novelty,	inventive step and industrial applicability		
Box No. IV Lack of	of unity of invention				
Box No. V Reason	ned statement under Article 35	5(2) with regard to	o novelty, inventive step or industrial		
· · · · · · · · · · · · · · · · · · ·	ability; citations and explanating documents cited	ons supporting su	en statement		
	n defects in the international a	pplication			
	n observations on the internati				
Box 140. 4 11 Certain Observations on the international approach					
Date of submission of the demand	D	ate of completion	of this report		
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29-03-2005		22-12-2005			
Name and mailing address of the IPEA/SE		Authorized officer			
Patent- och registreringsverket Box 5055	Į.				
S-102 42 STOCKHOLM		Fredrik Blomqvist /LR			
Facsimile No. +46 8 667 72 88 Telephone No. +46 8 782 25 00 Form PCT/IPEA/409 (cover sheet) (April 2005)					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001517

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet

INTERNATIONAL PATENT CLASSIFICATION (IPC):

H04Q 7/34 (2006.01) H04Q 7/36 (2006.01)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001517

Вох	No. I	Basis of the report					
1.	With re	regard to the language, this report is based on:	:				
	\boxtimes	the international application in the language in which it was filed					
	Ш	a translation of the international application into which is the language of a translation furnished for the purposes of:					
		international search (Rules 12.3(a) and 23.1(b))					
	publication of the international application (Rule 12.4(a))						
		international preliminary examination (Rules 55.2(a) and/or 55.3(a))	9				
2.							
	Ä	the international application as originally filed/furnished					
	Ш	the description:	المما				
		pages as originally filed/furnish pages* received by this Authority on					
		pages* received by this Authority on					
		the claims:					
	<u>ا</u>	pages as originally filed/furnis	hed				
l		pages* as amended (together with any statement) under Artic					
		pages* received by this Authority on					
		pages* received by this Authority on					
		the drawings:					
		pages as originally filed/furnis					
		pages* received by this Authority on					
		pages* received by this Authority on					
	Ш	a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.					
3.		The amendments have resulted in the cancellation of:					
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had no made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box 70.2(c)).	ot been x (Rule				
		the description, pages					
		the claims, Nos.					
		the drawings, sheets/figs					
		the sequence listing (specify):					
		any table(s) related to the sequence listing (specify):					
*	If iten	m 4 applies, some or all of those sheets may be marked "superseded."					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2003/001517

Box No. II \ Priority				
1. This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested:				
copy of the earlier application whose priority has been claimed (Rule 66.7(a)).				
translation of the earlier application whose priority has been claimed (Rule 66.7(b)).				
2. This report has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rule 64.1). Thus for the purposes of this report, the international filing date indicated above is considered to be the relevant date.				
3. Additional observations, if necessary:				
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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement					
Novel	lty (N)	Claims Claims	1-30	YES NO	
Invent	tive step (IS)	Claims Claims	1-30	YES NO	
Indust	trial applicability (IA)	Claims Claims	1-30	YES NO	

2. Citations and explanations (Rule 70.7)

The claimed invention solves the problem of having a passive performance monitoring solution, which provides information about the true, user perceived end-to-end performance of mobile data networks.

This is solved by capturing traffic traces over standardized interfaces of the operational cellular mobile data network, building a traffic and session database and defining a set of key performance indicators.

Prior art:

- D1) Soldani et al. "An improved method for assessing packet data transfer performance across a UMTS network", 2002
- D2) WO 03037018 A1
- D3) US2003186693 A1
- D4) "GPRS radio network performance simulation and optimization with dynamic simulactor" by Xiangguang, c. et al. 2003
- D5) EP1335505 A1

Documents D3-D5 only describes prior art.

Reasoned statement

According to document D1, a cost function is described, where the cost function determine the effectiveness of a WCDMA network. Key performance indicators are defined based on the traffic in the network and define the performance of the cell (see section 4.2).

The only difference between D1 and the subject matter of claims 1, 28 and 30 is that no database is built in D1.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: Box $\,V\,$

Instead, D1 describes how a simulator is developed to test the cost function. Usually some sort of database is used in simulations. Therefore, it would be general common knowledge for a person skilled in the art to use document D1.

Consequently, the subject matter of claims 1, 28, and 30 lacks an inventive step.

Also document D2 (see abstract and fig 1), describes how it optimises performance in a network. Information in the network is used to build a history database, where key performance indicators are used in a cost function. The only difference from the subject matter in claims 1, 28 and 30 is that D2 does not describe "raw traffic traces". But "raw traffic traces" can here be understood as the typical information traffic in the network. Therefore, in view of D2, the subject matter of claims 1, 28, and 30 also lacks an inventive step.

In claims 2-27 and 29 constructional details and characteristics of the method and system of claim 1 are defined, which come within the scope of the customary practice followed by persons skilled in the art, especially as the advantages thus achieved can readily be foreseen. Consequently, the subject matter of claims 2-27 and 29 also lacks an inventive step.

Accordingly, the subject matter of claims 1-30 is novel and has industrial applicability but is not considered to involve an inventive step.